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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/768,962	01/30/2004	Vivek Nautiyal	02-IND-139	4549
23990	7590	02/01/2005	EXAMINER ZWEIZIG, JEFFERY SHAWN	
DOCKET CLERK P.O. DRAWER 800889 DALLAS, TX 75380			ART UNIT 2816	PAPER NUMBER

DATE MAILED: 02/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/768,962

Applicant(s)

NAUTIYAL ET AL.

Examiner

Jeffrey S. Zweizig

Art Unit

2816

-- The MAILING DATE of this communication appears on the cover sheet with the corresponding address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 January 2004.
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) 1-19 is/are rejected.
7) ☐ Claim(s) _____ is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
10) ☒ The drawing(s) filed on 30 January 2004 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

Specification

1. The abstract of the disclosure is objected to because it's composed of more than one paragraph. Correction is required. See MPEP § 608.01(b).

Claim Objections

2. Claim 3 line 2 should be revised to read --redistribution circuit further comprises a transition detector--. In line 5, "simultaneously" should be --for simultaneously-- and "disable" should be --disabling--. In line 6, "enables" should be --enabling--. In line 6 there is no antecedent basis for "the control switch".

In claim 5 line 2, "comprising" should be --comprises--. In line 6, "/" should be --or--.

In claim 6 line 2, "comprising" should be --comprises--.

Claim 9 line 2 should be revised to read --redistribution circuit further comprises a transition detector--. In line 5, "simultaneously" should be --for simultaneously-- and "disable" should be --disabling--. In line 6, "enables" should be --enabling--. In line 6 there is no antecedent basis for "the control switch".

In claim 11 line 2, "comprising" should be --comprises--. In line 6, "/" should be --or--.

In claim 13 line 7, change "it" to --said signal line--.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

Art Unit: 2816

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 3, 5, 9, 11, 15 and 17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Independent claims 1, 7 and 13 define signal lines and sources. Referring to Applicants' Fig. 5, insofar as understood, the source is 502. The signal line is 507. These are two separate and distinct circuit points, however, some dependent claims appear to intermix the terms.

For example, in claim 3 line 3 and claim 9 line 3, "signal line" should be --source--. In claim 3 lines 7 & 8 and claim 9 lines 7 & 8, "a signal line" should be --the source--. In claim 17 there is no antecedent basis for "the signal". Presumably, this should be --a signal from the source--

Again in claim 5 lines 3 & 7 and claim 11 lines 3 & 7, "signal line" should be --source--

In claim 15, "signal line" should be --source circuit--.

Claims 3, 5, 9, 11 and 17 are indefinite.

In claims 3 and 9, switches function to connect their input to their output. In Applicants' Fig. 5, for example, the output of the control switch 506 is hardwired to the source/sink 509. The control switch connects its input 507 to its output 509. Thus the language of claims 3 and 9 is indefinite.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Prater (USPN 5,574,633).

Figs. 2 and 3 disclose a plurality of signal lines n12, an intermediate floating virtual source/sink 36, a plurality of sources 40 and a charge redistribution circuit (n30, n14 & all of Fig. 3) as recited in claim 1. Component 48 generates the recited idle period.

Line 36 is seen as a charge storage element, a capacitor or a floating conductor as recited in claims 2, 4 and 6.

As best understood, Fig. 3 is the recited transition detector including tri-state drives 56/58 and control switch 54/n30 as recited in claim 3.

As best understood, Fig. 3 further shows a delay circuit 48 and an XOR gate 50 as recited in claim 5.

Claims 1-19 are anticipated for the reasons above.

Conclusion


7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey S. Zweizig whose telephone number is (571)

Art Unit: 2816

272-1758. The examiner can normally be reached on Monday thru Thursday 6:00 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Jeffrey S. Zweizig
Primary Examiner
Art Unit 2816

JZ